

BV (2)/ML & MDT-2.2/17 (MC)

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**MEDICAL LAB AND MOLECULAR
DIAGNOSTIC TECHNOLOGY**

Paper : S-2.2

(General Microbiology)

Full Marks : 40

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

1. Fill in the blanks : 1×5=5
 - (a) Colonies of bacteria can be identified after _____ hours of incubation.
 - (b) Media used to inhibit commensals are _____ media.
 - (c) Blood agar is a type of _____ media.
 - (d) _____ is the liquid medium in which bacteria may be grown.
 - (e) _____ is the most commonly used solidifying agent.

2. Write short notes on any *five* of the following : 2×5=10
 - (a) Liposome
 - (b) Batch culture

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(Turn Over)

(2)

- (c) Capsule
- (d) Gram-positive bacteria
- (e) Split ratio
- (f) Continuous cell line
- (g) Plasmid

3. Answer any *three* of the following questions :

5×3=15

- (a) What are the characteristics of secondary metabolites?
- (b) Write in detail about warm trypsinization method.
- (c) Write a note on viable cell count of a bacterial culture.
- (d) What are the general characteristics of transformed cells?
- (e) Write about the bacterial transduction.

4. Answer any *one* of the following questions : 10

- (a) Write an essay on the applications of microbiology.
- (b) What is media? Write in detail about sterilization of culture media.
- (c) Write a note on primary cell culture techniques.

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